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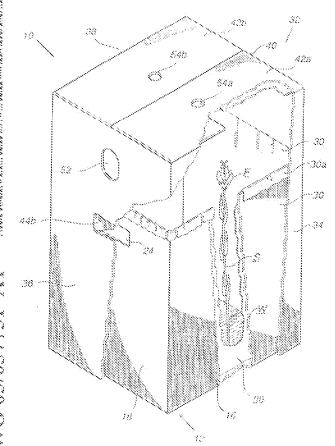
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(84) TIGE: PACEAGING FOR SHIPPING FLOWERS



(57) Abstract: A pockaging assembly (10) for shipping thosens (10) comprising, a first, inser container (12) havring a between (14) and subs, walls (15, 18, 20, 22). A limited of water-tight sheet material, preferably in form of plastic bug (30) is placed within the first container (12). A secand, outer container (32) having a top (42a, 42b) and side walls (34, 36, 38, 40) is provided, configured to congruently receive thereinside the first container (12). Plays (43a, 44b, 46a, 46b) logisted on the side walls (3b, 4b) of the outer committee (32), corresponding to two our openings (24, 26) forehold on apposit walls (18, 22) of the innor container (12), are used for releasably fastering the scoping container (32) to the first container (12) so that in the operative shipping state, the packaging (10) can be minicovered by lifting the outer container (32), whereas at destination the outer container (32) can be separated from the inner container (12) by releasing the flaps (44), 44h; 46a, 46b) and lifting the outer container (32) above and away from the inner container (12).

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PACKAGING FOR SHIPPING FLOWERS

FIELD OF THE INVENTION

The present invention relates to packaging for the transportation of flowers.

5 BACKGROUND OF THE INVENTION

Transportation of flowers poses the problem of how to keep the flowers as fresh as possible so as to prolong their "shelf-life", namely to preserve the aesthetic appearance when displayed at the market place and thereafter, at the customer's premises.

Several methods have been developed and currently applied toward this end.
Perhaps the most effective way is to ship the flowers under low temperature. This method, however, is highly expensive and requires special equipment.

It has also been proposed to ship the flowers in containers that included a bucket filled with water in which the flower stems are immersed. This method suffered at least one drawback in that the water, during handling, e.g. loading onto transport pallets, tended to spill from the bucket, damaging the complete packaging (usually made of corrugated cardboard).

The prime object of the present invention is to improve this last mentioned method.

20 SUMMARY OF THE INVENTION

Thus provided according to the invention is a packaging assembly for shipping flowers comprising, in combination: a first, inner container having a bottom and side walls; a lining of water-tight sheet material within the first container; a second, outer container having a top and side walls configured to congruently receive thereinside the first container; and means for releasably fastening the second container to the first container so that in the operative shipping state, the packaging can be maneuvered by lifting the outer container whereas at destination the outer container can be separated from the inner container by releasing the fastening means and lifting the outer container above and away from the inner container.

The containers are preferably made of cardboard and are of a square or rectangular shape.

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BRIEF DESCRIPTION OF THE DRAWINGS

These and additional constructional features and advantages of the invention will be more clearly understood in the light of the ensuing description of a preferred embodiment thereof, given by way of example only, with reference to the accompanying drawing, wherein –

- Fig. 1 is a schematic, three-dimensional view of the packaging with peeled-away portions for showing inner parts thereof;
 - Fig. 2 is an exploded view of the packaging of Fig. 1;
- 10 Fig. 3 is a cross-sectional view of the packaging of Fig. 1; and
 - Fig. 4 is a detail showing in cross-section the foldable flaps used to fasten the outer container to the inner container during the shipping and subsequent handling stages.

15 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The packaging generally denoted 10 in Fig. 1 comprises an inner container 12, preferably made of corrugated or other type of cardboard as customary in the art of packaging. It could be square or rectangular, of the designer's choosing.

As shown in Fig. 2, the inner container 12 has a bottom 14, four side walls 16, 20 18, 20, and 22, and an open top.

Two cut-out openings, 24 and 26 are formed on opposing walls 18 and 22, respectively, at a pre-determined height exactly conforming to two pairs of corresponding locking flaps 44a, 44b, 46a, and 46b, located on walls 36 and 40 of outer container 32, respectively (see Fig. 3).

A bag-like receptacle 30 is inserted into container 12, self-supported by its rim 30a folded over the edges of walls 16, 18, 20, and 22 at the top of the open-ended container 12. The container 30 may be made of any sultable water-tight sheet-material, e.g. polyethylene.

The structure of the packaging 10 is completed by superimposing outer container 32 over inner container 12, made of the same cardboard material. The container 32 has an open bottom, four side-walls 34,36,38, and 40, and a top wall 42, preferably composed of two foldable flaps 42a and 42b.

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The measurements of the outer container 32 are such that it can be superimposed over the inner container 12 from above, through the open bottom. The height of the container 32 exceeds that of the container 12 for the purpose described below.

The containers 12 and 32 are coupled to each other in order to facilitate the maneuvering of the package 10 as a unitary body. As already mentioned in the exemplified embodiment (see Fig. 3), use is made of two cut-out foldable flaps 44a and 44b at the one side (wall 36), and flaps 46a and 46b at the opposite side (wall 40).

Hence, in the assembled state, the flaps 44a, 44b are pushed inwards to extend into the opening 24 of the wall 18, and flaps 46a and 46b are inserted into the opening 26, thereby "locking" the components into a secure unit. Other means of achieving the arrest of the containers 12 and 32 to each other may also be employed.

In order to enable the separation of the container 32 from the container 12, the flaps 44a, 44b (and 46a and 46b) are folded outwardly as shown in the broken lines in Fig.4.

The container 32 is formed with an additional opening 52, at one or both of walls 36 and 40, for pouring water into the assembled unit (see below).

Optionally, finger holding openings 54a, 54b are formed at the top sections 42a and 42b, respectively.

The packaging 10 is used in the following manner. First, the bag 30 is placed within the container 12, with the upper rim thereof 30a folded back as shown in Fig. 1.

The container 32 is then superimposed over the container 12, preferably with some friction that contributes to the unity of the assembly. For extra safety, the flaps 44a, 44b and their counterparts 46a and 46b are folded into the opening 24 and 26 to strengthen the grip between the containers (wall 18 to wall 36 and wall 22 to wall 40).

The flaps 42a and 42b (and their underlying flaps if present) are opened for placing the flowers <u>F</u> in the lower container 12, within the bag 30, and the container 32 is closed (e.g. by adhesive tape). The excessive height of the

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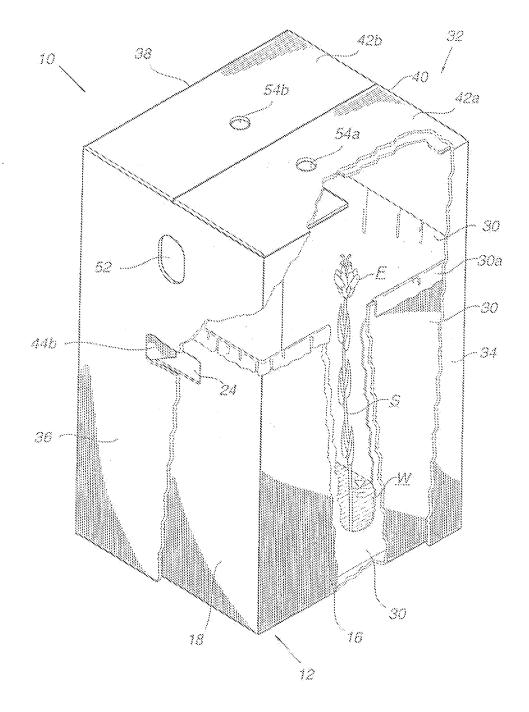
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container 32 is designed in accordance with the length of the flowers E, which may vary from one shipment to another.

At any stage thereafter, namely before or after air-shipping or prior to continued transport to a final destination, water <u>W</u>, preferably chilled, can be poured through opening 52 up to a level, say of 10-20 cm. Anyway, the packaging 10 is ready to be loaded onto transport pallets in the conventional manner.

At the destination, the package is disassembled simply by removing the container 32 (after releasing the flaps 44 and 46), and the container 12 remains as is, serving to display the flowers. The packaging components are readily foldable in a space-saving form to be shipped back and reused, or disposed of.

While the above description contains many specificities, these should not be construed as limitations on the scope of the invention, but rather as an exemplification of a preferred embodiment. Those skilled in the art will envision other possible variations that are within its scope. Accordingly, the scope of the invention should be determined not by the embodiment illustrated, but by the appended claims.

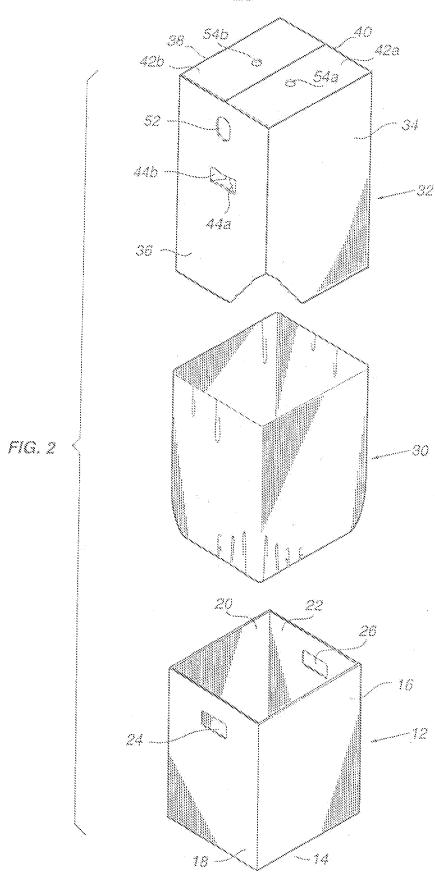


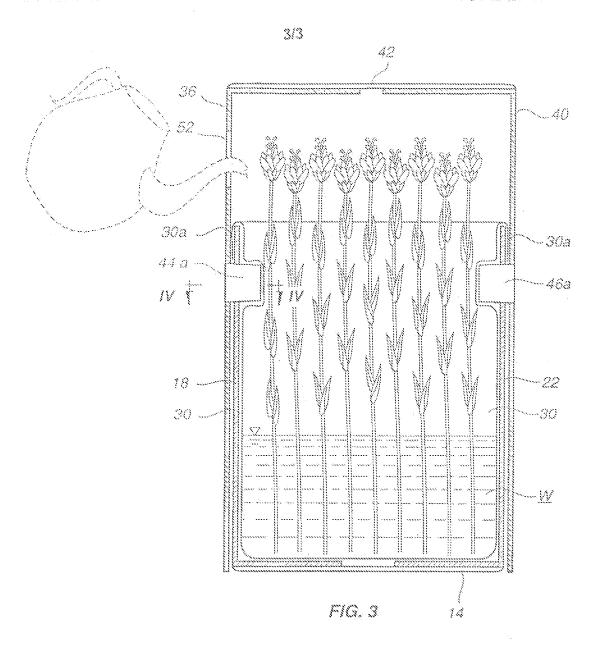
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WHAT IS CLAIMED IS:

- A packaging assembly for shipping flowers comprising, in combination:
 - a first, inner container having a bottom and side walls;
 - a lining of water-tight sheet material within the first container;
 - a second, outer container having top and side walls, configured to congruently receive thereinside the first container; and
 - means for releasably fastening the second container to the first container so
 that in the operative shipping state, the packaging can be maneuvered by
 lifting the outer container, whereas at destination the outer container can be
 separated from the inner container by releasing the fastening means and
 lifting the outer container above and away from the inner container.
- The packaging of Claim 1 wherein the lining consists of a bag placed within the first container.
- The packaging of Claim 2 wherein the first and second containers are made of cardboard.
- The packaging of Claim 3 wherein the containers are of a square or rectangular shape.
- The packaging of Claim 4 wherein there is formed at the upper portion of the second container an opening for pouring water into the first container.
- 6. The packaging of Claim 1 wherein the fastening means comprise at least two cut-out foldable flaps formed at oppositely located side walls of the second container and adapted to be inserted into correspondingly located cut-out openings formed at the side walls of the first container.
- 7. The packaging of Claim 1 wherein opening(s) are formed at at-least one of the second container wall(s) for pouring water into the packaging assembly.
- 8. The packaging of Claim 1 wherein the top wall of the second container is formed of two flaps, comprising finger-grip openings.







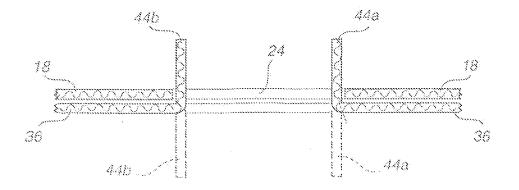


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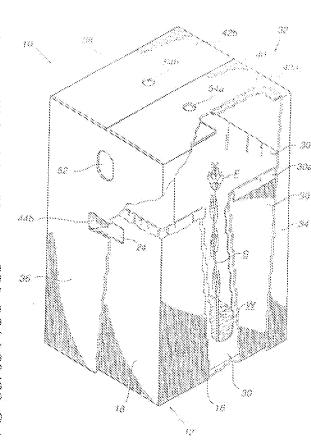
-29 October 2001 (29,10-2001) H.

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- (74) Agent FREIMANN, Daniel P.O. Box 29814, 61297 fel. Aviv 111.).
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(54) THE PACKACING FOR SHIPPING FLOWERS



(57) Abstract: A packaging assembly (10) for shipping Biowars (Pr comprising, a first, inner container (12) having a battern (13) and sade walls (16, 18, 29, 32). A liming aged in past of Velevilland, bear dien teath tolet same to the lung (90) is placed within the first contributed (12). A second, camp container (32) having a top (42), 42b) and side walls (44, 36, 38, 30) is provided, configured to congruently exective thereinside the first container (12). Plaps (44a, 43b; 46e, 4(3r) located on the side walls (36, 40) of the outer container (32), represponding to two cut-openings (24, 26) formed on opposit walls (18, 22) of the inner container (12), are used for releasibly fastening the secand container (32) to the first container (12) so that in the operative shipping state, the packaging (10) can be manegwered by lifting the outer container (32), whereas at destination the outer container (32) can be separated from the inner container (12) by releasing the Plans (44a, 44b; 46a, 46b) and litting the outer container (32) above and away from the inner container (12).

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